

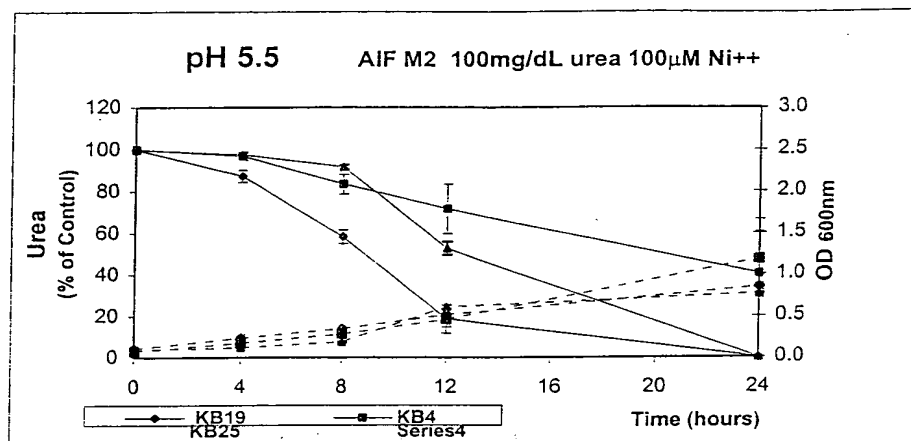
Survival of three *S. thermophilus* strains KB19, KB4, and KB25 in simulated gastric juice at pH 1.4, 2.0, 2.4, and 3.0.  
Data are cfu/mL.

KB19 KB4 KB25

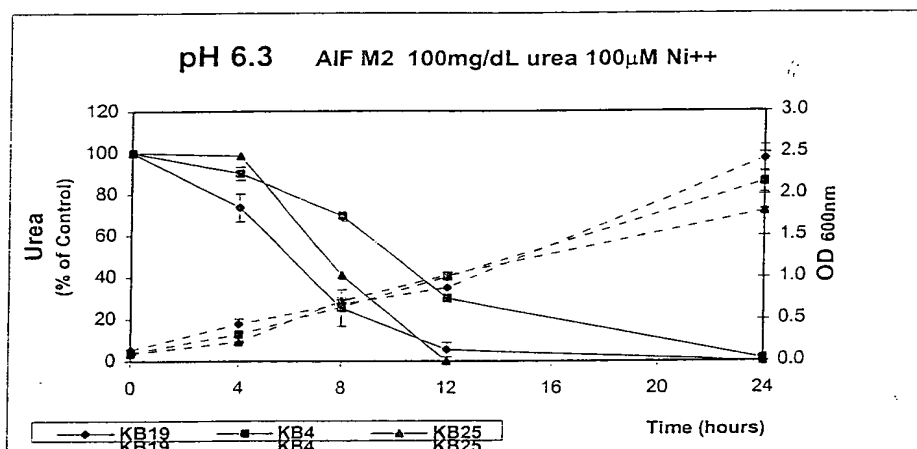
pH	1.4	2	2.4	3	1.4	2	2.4	3	1.4	2	2.4	3
0 hours	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>
1 hour	0	0	10 <sup>4</sup>	10 <sup>8</sup>	10 <sup>3</sup>	10 <sup>3</sup>	10 <sup>5</sup>	10 <sup>10</sup>	0	0	ND	ND
2 hour	0	0	10 <sup>4</sup>	10 <sup>8</sup>	0	0	10 <sup>4</sup>	10 <sup>10</sup>	0	0	ND	ND
3 hour	0	0	10 <sup>4</sup>	10 <sup>6</sup>	0	0	10 <sup>4</sup>	10 <sup>9</sup>	0	0	10 <sup>6</sup>	10 <sup>7</sup>

FIGURE 1

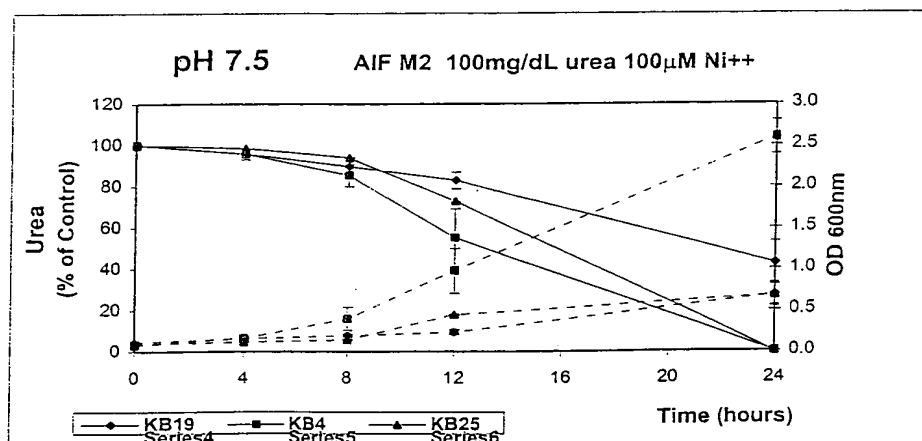
2A



2B

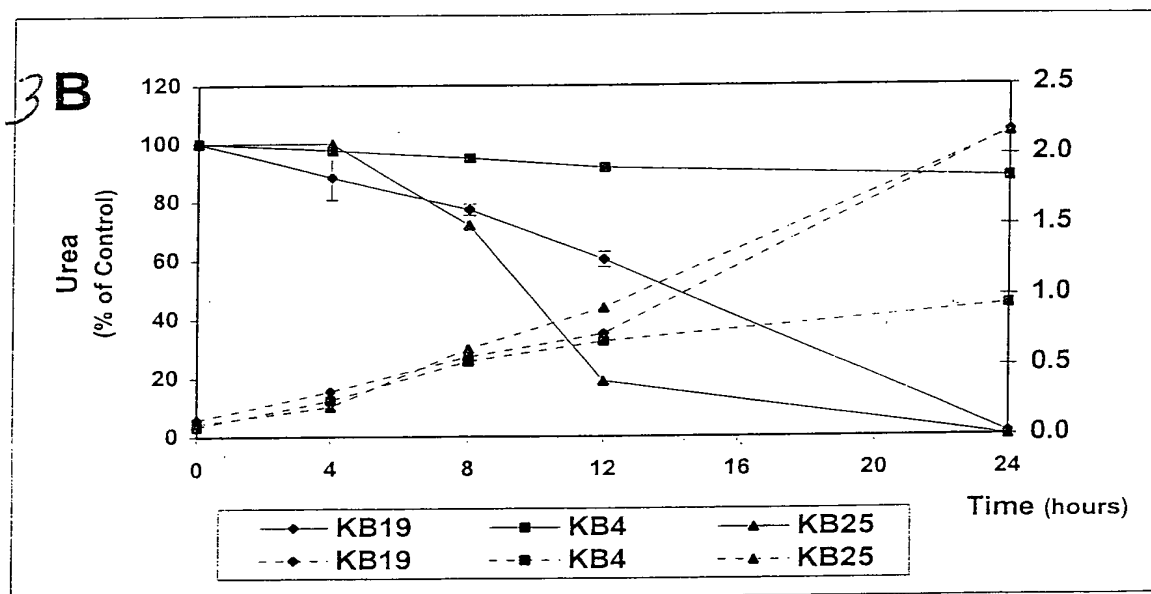
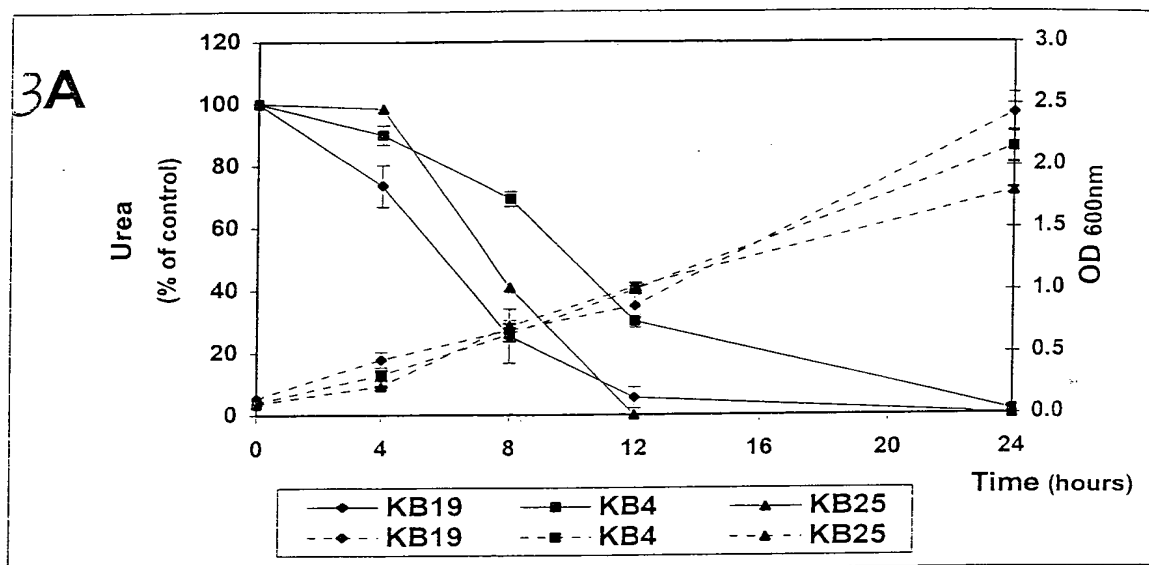


2C



Urea hydrolysis by three *S.thermophilus* strains at different pH  
Data presented are mean  $\pm$  SEM, n= 3 - 9

FIGURE 2



Dependency of the rate of urea hydrolysis on the availability of  $\text{Ni}^{++}$   
 Data presented are Mean  $\pm$  SEM from 3 independent experiments

**FIGURE 3**

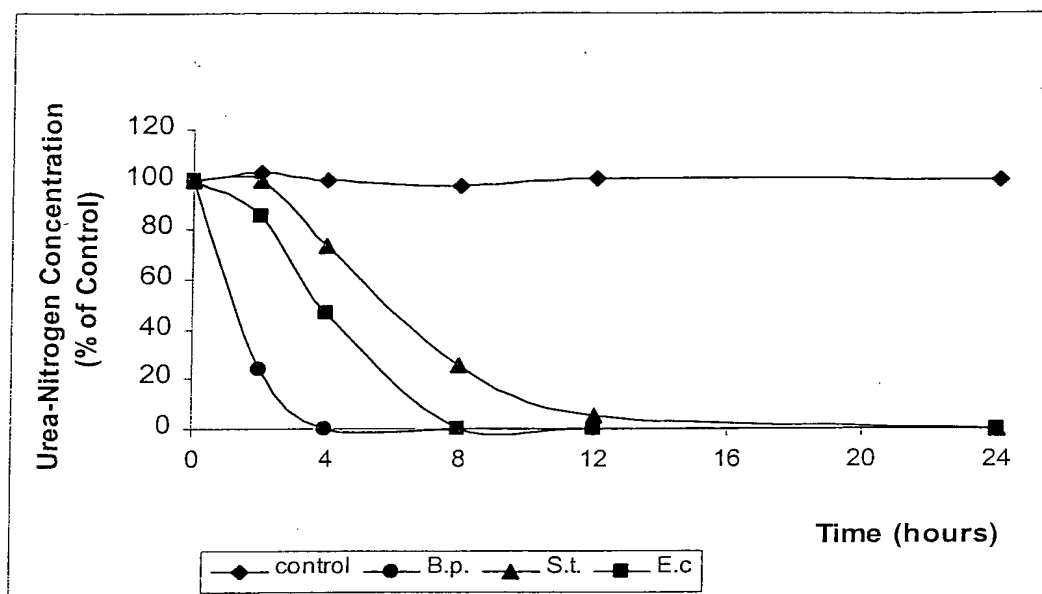


Figure 4. Ureolysis by *S.thermophilus* KB19, *Bacillus pasteurii* ATCC 6453, and *E.coli* strain DH5 $\alpha$  transformed with multi-copy plasmid bearing *Klebsiella aerogenes* urease operon.

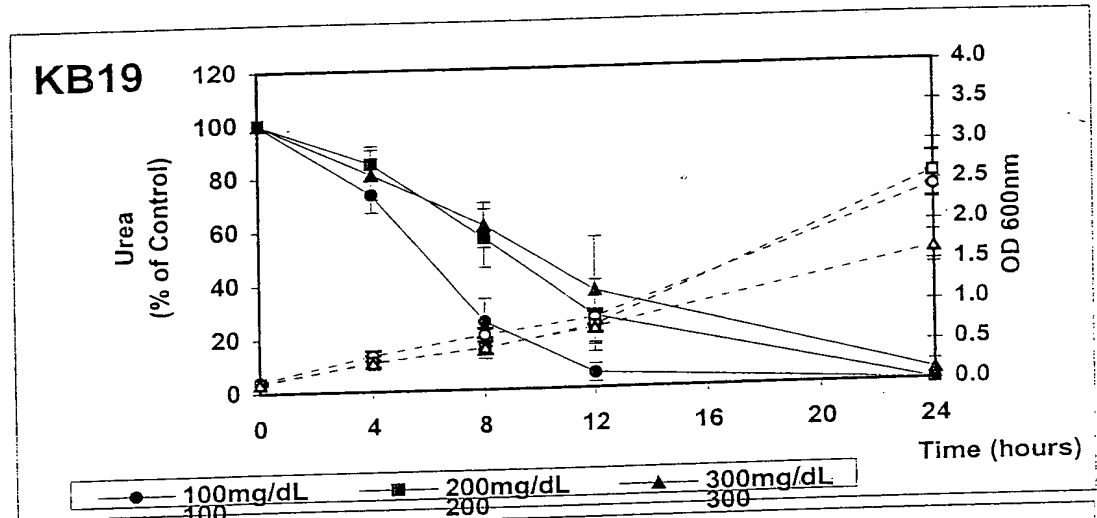
**FIGURE 4**

Urea hydrolysis by three *S.thermophilus* strains at concentrations of urea characteristic of uremic blood levels

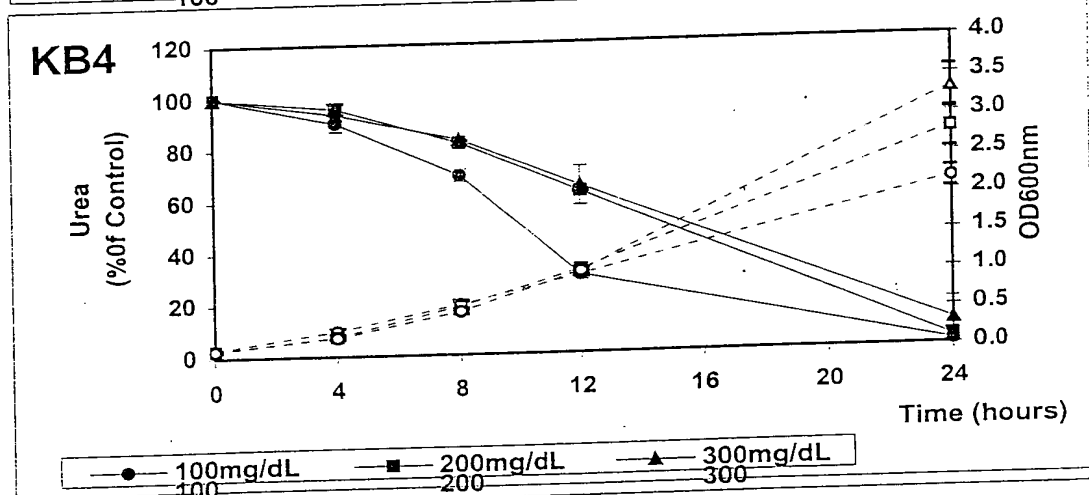
AIF M2 pH 6.3 100uM Ni

Data presented are mean  $\pm$ SEM, n=3-5

5A



5B



5C

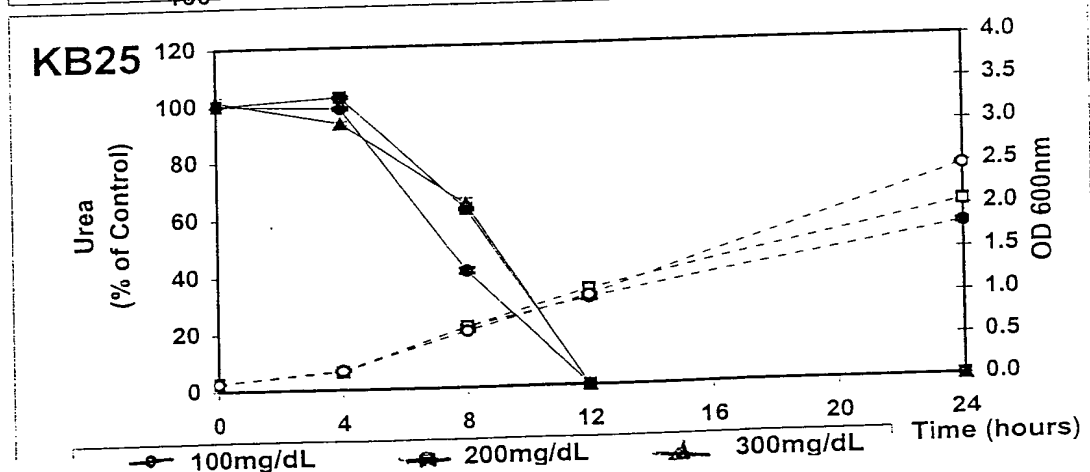


FIGURE 5